

# PATENT ABSTRACTS OF JAPAN

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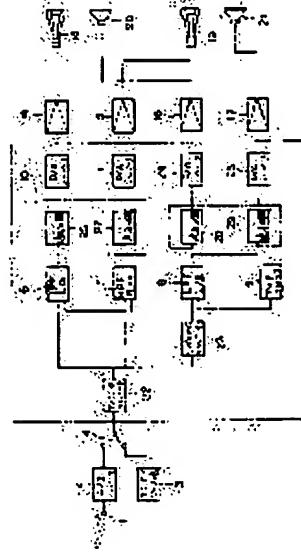
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## (54) NETWORK FOR MULTI-WAY SPEAKER EQUIPMENT

### (57)Abstract:

PURPOSE: To realize desired phase and amplitude characteristics with a scale of a small circuit by providing a cyclic filter correcting the phase characteristic of a speaker unit and a noncyclic filter correcting the amplitude characteristic of the cyclic filter.

CONSTITUTION: A sampling converter 23 converting a clock frequency of a digital signal inputted from a switch 4 into a lower clock frequency is connected to a low-pass filter 8. D/A converters 24, 25 converting the said low sampling signal are connected to the post-stage of the filter 8. Moreover, the high-pass filters 6, 7 consist of the cyclic filter correcting the phase characteristic of the speaker unit and the noncyclic filter correcting the amplitude characteristic of the cyclic filter. A digital signal whose time base is corrected by delay circuits 26~29 is converted into an analog signal by D/A converters 10, 11, 24, 25 and amplified by amplifiers 14~17 and fed to speakers 18~21.



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